CATALOGUE

OF THE

University of North Carolina,

AT

CHAPEL HILL.

NINETY-SECOND YEAR.

1886-'87.

RALEIGH, N. C.:
EDWARDS, BROUGHTON & CO., POWER PRINTERS AND BINDERS.
1887.

CALENDAR.

CURRENT ACADEMIC YEAR. (1886–'87.)

1886.

Aug. 26. Beginning of Session.
Aug. 26–28. Examination of Applicants for Admission.
Oct. 12. ANNIVERSARY OF THE FOUNDATION OF THE UNIVERSITY.
Nov. 25. Thanksgiving.
Dec. 22. End of First Term.

1887.

Jan. 5. Beginning of Second Term.
Feb. 22. WASHINGTON'S BIRTHDAY.
May 30–31. Examination of Applicants for Admission.
May 31. Meetings of the two Literary Societies.
June 1. Address before the Literary Societies; Baccalaureate Sermon; Addresses by the Society Representatives.
June 2. COMMENCEMENT DAY.

NEXT ACADEMIC YEAR. (1887–'88.)

1887.

Aug. 25. Beginning of Session.
Aug. 25–27. Examination of Applicants for Admission.

BOARD OF TRUSTEES.

His Excellency, ALFRED M. SCALES, *Governor and Pres. ex-officio.*
Hon. WM. L. SAUNDERS, ... *Secretary and Treasurer.*

TERM EXPIRES NOV. 30, 1887.

Rev. A. D. Betts, ... N. C. Conference.
Hon. R. R. Bridgers, ... New Hanover.
Hon. Ralph P. Buxton, ... Cumberland.
Hon. George Davis, LL. D., ... New Hanover.
Hon. W. T. Faircloth, ... Wayne.
N. P. Foard, Esq., ... Surry.
Hon. John A. Gilmer, ... Guilford.
Maj. John W. Graham, ... Orange.
H. A. Gudger, Esq , ... Buncombe.
F. M. Johnston, Esq., ... Davie.
Hon. James M. Leach, ... Davidson.
Hon. John Manning, LL. D., ... Orange.
D. P. MacEachern, Esq., ... Robeson.
R. B. Peebles, Esq., ... Northampton.
Hon. James L. Robinson, ... Macon.
W. J. Yates, Esq., ... Mecklenburg.

TERM EXPIRES NOV. 30, 1889.

Hon. C. M. Cooke, ... Franklin.
Hon. J. J. Davis, ... Franklin.
Col. G. N. Folk, ... Caldwell.
Eugene Grissom, M. D., LL. D., ... Wake.
Kerr Craige, Esq., ... Rowan.
C. W. Hollowell, Esq., ... Pasquotank.
Rev. Neill McKay, D. D., ... Harnett.
Hon. A. C. Avery, ... Burke.
H. D. Williamson, Esq., ... Columbus.
Hon. W. L. Steele, ... Richmond.
Rev. J. L. Stewart, ... Sampson.

Col. S. McD. Tate, ... Burke.
Hon. C. R. Thomas, ... Craven.
Hon. R. B. Vance, ... Buncombe.
Joseph Williams, Esq., ... Yadkin.
Rev. N. H. D. Wilson, D. D., ... Guilford.

TERM EXPIRES NOV. 30, 1891.

Hon. Kemp P. Battle, LL. D., ... Orange.
James S. Battle, Esq., ... Nash.
Robert S. Beall, M. D., ... Caldwell.
Charles W. Broadfoot, Esq., ... Cumberland.
Henry R. Bryan, Esq., ... Craven.
Hon. Paul C. Cameron, ... Orange.
Maj. John D. Cameron, ... Buncombe.
E. Hayne Davis, Esq., ... Iredell.
Benjamin F. Grady, Esq., ... Duplin.
Wm. J. Hawkins, M. D., ... Wake.
Hon. Thos. S. Kenan. ..... Wilson.
William N. Mebane, Esq., ... Rockingham.
A. Haywood Merritt, Esq., ... Chatham.
Col. James T. Morehead, ... Guilford.
Hon. Zebulon B. Vance, LL. D., ... Mecklenburg.
John W. Fries, Esq., ... Forsyth.

TERM EXPIRES NOV. 30, 1893.

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Richard H. Battle, Esq., ... Wake.
Col. Joseph A. Bitting, ... Forsyth.
Julian S. Carr, Esq., ... Durham.
William H. Day, Esq., ... Halifax.
Col. John M. Galloway, ... Rockingham.
William E. Hill, Esq., ... Duplin.
James H. Horner, Esq., ... Granville.
Hon. George Howard, ... Edgecombe.
Hon. Montford McGehee, ... Person.
Col. Paul B. Means, ... Cabarrus.
Lee S. Overman, Esq. ..... Rowan.
James Parker, Esq., ... Gates.
Hon. Charles Price, ... Rowan.
Rev. Thomas H. Pritchard, D. D., ... New Hanover.
Hon. John C. Scarborough, ... Johnston.

ADDITIONAL TRUSTEES.

To be by law "from points conveniently accessible to the Seat of Government and the University."

TERM EXPIRES NOV. 30, 1887.

Col. W. H. S. BURGWYN,.....Vance.
Hon. THOMAS M. HOLT,.....Alamance.
Rev. D. A. LONG,.....Alamance.
GEORGE WILLIAMSON, Esq.,.....Caswell.

TERM EXPIRES NOV. 30, 1889.

JAMES A. GRAHAM, Esq.,.....Alamance.
Hon. THOMAS J. JARVIS,.....Pitt.
ISAAC R. STRAYHORN, Esq.,.....Orange.
Hon. GEORGE V. STRONG,.....Wake.

TERM EXPIRES NOV. 30, 1891.

FABIUS H. BUSBEE, Esq.,.....Wake.
W. W. LENOIR, Esq.,.....Watauga.
J. EDWIN MOORE, Esq.....Martin.
Hon. WM. L. SAUNDERS,.....Wake.

TERM EXPIRES NOV. 30, 1893.

WM. H. CHADBOURN, Esq.,.....New Hanover.
A. M. LEWIS, Esq.,.....Wake.
THOMAS W. MASON, Esq.,.....Northampton.
JOHN E. WOODARD, Esq.,.....Wilson.

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EUGENE GRISSOM, M. D., LL. D.
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Hon. WM. L. SAUNDERS.
Hon. GEORGE V. STRONG.

COMMITTEE OF VISITATION FOR 1887.

Rev. N. H. D. Wilson, D. D., Chairman ..... Guilford.
Rev. J. L. Stewart, ... Sampson.
J. S. Carr, Esq., ... Durham.
C. M. Cooke, Esq., ... Franklin.
C. R. Thomas, Esq., ... Craven.
W. H. S. Burgwyn, Esq., ... Vance.
Wm. H. Chadbourn, Esq., ... New Hanover.

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HON. KEMP P. BATTLE, LL. D.,

PRESIDENT.

FACULTY.

(IN ORDER OF OFFICIAL SENIORITY.)

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Professor of Political Economy, Constitutional and International Law.

REV. CHARLES PHILLIPS, D. D., LL. D., Δ ⊂
Professor Emeritus of Mathematics.

REV. ADOLPHUS W. MANGUM, A. M., D. D., Δ ⊂
Professor of Mental and Moral Science.

χ Φ RALPH HENRY GRAVES, B. SC., C. AND M. E., Φ
Professor of Mathematics.

χ Φ GEORGE TAYLOE WINSTON, Φ
Professor of the Latin Language and Literature.

Δ K E FRANCIS PRESTON VENABLE, PH. D., F. C. S., Φ
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NELSON B. HENRY,
Professor of the Science and Art of Teaching.

WALTER D. TOY, M. A.,
Professor of Modern Languages.

WILLIAM B. PHILLIPS, PH. B., PH. D.,
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Professor of the Greek Language and Literature.

JAMES LEE LOVE, PH. B.,
Assistant Professor of Mathematics.

GEO. F. ATKINSON, PH. B.,
Assistant Professor of Natural History.

OFFICERS.

JAMES LEE LOVE,
Librarian and Secretary.

JOSEPH A. MORRIS AND JOHN F. McIVER,
Society Librarians.

J. W. GORE,
Registrar.

W. T. PATTERSON,
Bursar.

GENERAL INFORMATION.

The University of North Carolina was established in obedience to a clause of Section XLI. of the Constitution of the State, adopted on the 18th of December, 1776, viz.: "All useful learning shall be duly encouraged and promoted in one or more Universities."

The charter was granted in 1789. On October 12th, 1793, the corner-stone of the first building, the "Old East," was laid by William Richardson Davie, afterwards Governor. The doors were opened for students in February, 1795. The buildings are now nine in number, with ample dormitories, recitation rooms and public halls.

The University is situate at Chapel Hill, twenty-eight miles from Raleigh, the seat of the government, and is reached by a branch of the North Carolina Railroad from University Junction, on which daily trains run.

Its government is under the control of a Board of eighty Trustees, elected by the joint vote of the General Assembly. Of these, one-fourth go out of office, and their places are filled, every two years. Although not so required by law, in practice they are distributed among the Congressional Districts. The Board meets regularly twice a year; in the winter at Raleigh, on a day selected by the chairman, and in the summer at Chapel Hill, during Commencement week. The former is called the Annual Meeting. The Governor is *ex-officio* chairman of the Board. Ten constitute a quorum. During the recess of the Board, an Executive Committee of seven Trustees, elected at the annual meeting, exercises all the powers of the Board of Trustees, except those specially reserved.

DISCIPLINE.

The discipline of the institution is designed to prevent irregularities and excesses which conflict with the improvement of its members. The laws require faithful attention to duty and abstinence from everything that may interrupt or disturb study. Students will be required to observe decorum and courtesy towards each other at all times. They will not be allowed to retain in their possession during their connection with the University any pistol or other dangerous weapon.

The Faculty will remove from the University any student who is negligent of his duties, or exerts an evil influence over his fellows.

The practice of "hazing" in all its forms is strictly prohibited. The two literary societies have passed joint resolutions to co-operate with the Faculty in securing its suppression.

EXAMINATIONS AND REPORTS.

Each student is required to attend, on an average, three class exercises daily. In addition to the daily recitations and lectures, systematic written examinations are held from time to time on the various studies, and, at the close of each term, comprehensive and searching final examinations are held on all the studies pursued during the term.

Regular monthly reports are made to parents concerning the punctuality and diligence of the students, and detailed reports of scholarship are made at the close of each term.

LITERARY SOCIETIES.

In connection with the University are the Dialectic and Philanthropic Literary Societies, to one of which each student is required to attach himself, unless excused for special reasons. The halls of these societies are commo-

dious and elegantly furnished. Each society owns many valuable portraits and a considerable museum of curiosities and minerals.

The exercises of these societies deserve to be ranked among the advantages offered by the University. They afford practice in debating and writing, and familiarize the students with the rules of order governing deliberative assemblies.

LIBRARIES.

The Philanthropic and Dialectic and University Libraries have been consolidated and carefully arranged in Smith Hall. The consolidated library is open daily, except Sunday, for the use of students. It contains twenty-five thousand volumes and five thousand pamphlets, illustrating every department of literature and science. Additions are made each year; and the books are used as instruments, not only for the general culture and entertainment of the students, but also for their special training and in the development of their capacity for original investigation and higher culture, under the guidance of the professors in the several departments. The libraries are managed by a member of the Faculty with two students, who are elected by the Literary Societies.

READING ROOM.

The Reading Room is open daily to all students from 8 A. M. to 6 P M. It contains a choice collection of current literature, American and foreign, including 29 magazines, 10 dailies and 40 weeklies.

Books of reference, such as dictionaries and encyclopedias are at hand; and the libraries in the hall adjacent furnish full opportunity for extended investigation.

UNIVERSITY LECTURES.

During the session a public lecture, upon some subject in literature or science, is delivered the second Saturday

evening of each month by a member of the Faculty or some distinguished visitor.

THE ELISHA MITCHELL SCIENTIFIC SOCIETY.

This society was organized for the purpose of encouraging and stimulating scientific research. It meets the third Wednesday evening of each month during the session, to hear papers and discuss questions of interest. Any person in the State of North Carolina, interested in the work and progress of the Natural Sciences, may become an active member. Its proceedings are published in an annual journal.

SHAKSPERE CLUB.

This society was organized November, 1886, at the instance of members of the Senior Class who were interested in the critical study of Shakspere and other dramatists. Professors and students are its members, united in research and discussion. By the liberality of some of the members the nucleus for a Shakspere Library has been formed. The meetings are held on the first and the third Wednesday nights of every month, and occasional lectures are delivered by persons specially versed in Shaksperian subjects.

UNIVERSITY MAGAZINE.

The University Magazine is published monthly by the two Literary Societies of the University. Its object is to stimulate the students to independent literary work and to train them in the Art of Expression. It also furnishes a review of University matters, and gives interesting information about former students.

RELIGIOUS SERVICES.

The students are expected to attend the Sunday Bible classes, the daily morning prayers in the University chapel,

and the Sunday services in the several churches in the village.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

There is a branch of the Young Men's Christian Association among the students. It has many members of spirit and activity, and its influence for good is very marked. Regular meetings are held every Sunday afternoon, and prayer-meetings each evening during the week, except Friday and Sunday, in one of the University halls set apart for the purpose.

MUSEUMS.

Every scientific department of the University is equipped with a museum of specimens for laboratory work; and besides these working museums there is a large and valuable collection of specimens in botany, geology, mineralogy, zoology and entomology, carefully arranged for exhibition in UNIVERSITY MUSEUM.

MEDALS AND PRIZES.

MEDAL FOR ORATORY.—The Misses Mangum, of Orange, offer *in memoriam* of their father, Willie P. Mangum, a gold medal as a prize for the best oration, at the annual Commencement.

THE MATHEMATICAL PRIZE.—A prize is offered in honor of Dr. James Phillips and Dr. Charles Phillips, by the sons of the latter. It will be awarded to the member of the third class in Mathematics who attains the highest proficiency above a certain absolute standard.

THE MORAL SCIENCE MEDAL.—Mr. David G. Worth, of Wilmington, offers a medal for the best scholarship in Moral Science.

THE GREEK PRIZE.—Offered to the member of the Sophomore Greek Class who presents the best rendering into English of selected passages of Greek not previously read.

THE B. F. MOORE SCHOLARSHIPS.

The late B. F. Moore, of Raleigh, bequeathed $5,000, the interest of which is to be devoted to paying the tuition of students.

THE DEEMS FUND.

This Fund was instituted by the Rev. Dr. C. F. Deems, pastor of the Church of the Strangers, New York, as a memorial of his son, Lieutenant Theodore Disosway Deems, who was born at Chapel Hill while his father was in the Faculty of the University. It is intended to assist needy students by loans. In 1881 it was greatly enlarged through the munificence of Mr. Wm. H. Vanderbilt. On the 1st of February, 1887, there were notes amounting to $12,838.52, representing current loans to students. To that date 95 students had been helped by the fund. As payments are made, new loans will be made to applicants who meet the requirements. They must come with good recommendations for character; or, if members of the University, must have demonstrated to the Faculty that they are worthy of assistance. The loans are made at six per cent. interest, on satisfactory security, and for a sufficient length of time to make the payments easy.

THE FRANCIS JONES SMITH FUND.

Miss Mary Ruffin Smith, of Orange, has left a valuable tract of fourteen hundred and forty acres of land in Chatham county, known as the Jones Grove Tract, the income of which, or of the proceeds if sold, shall be used for the education of such students as the Faculty may designate.

Part of this income will be available during the ensuing Autumn.

The above name is given to the fund at the request of the testatrix.

ANNUAL EXPENSES.

The University endeavors to reduce to a *minimum* the necessary expenses of education. The only charges are for tuition, room-rent and service; as follows:

Tuition	$60
Room-rent and service	10
Total, per annum	$70

The cost of board, clothing, traveling, books, &c., will depend largely upon each individual. Board may be had at prices ranging from $8 to $13 per month. Books and stationery are supplied at New York prices. The entire annual expense need not exceed $300, and it may be reduced below $200.

The University fees are required to be paid semi-annually in advance. In special cases time is allowed, and students unable to pay may give notes. By a recent act of the Legislature, free tuition is offered to candidates for the ministry, sons of ministers and in the Teacher's Course to young men preparing to teach; but the fee for room-rent and service must be paid by every student before he is allowed to register.

The Faculty earnestly recommend parents to deposit necessary funds for the expenses of their sons with W. T. Patterson, Esq., Bursar of the University, who will safely keep and disburse the same without charge.

BEGINNING OF THE SESSION.

The annual session begins regularly on the last Thursday in August and ends on the first Thursday in June. There is an intermission of about a week at Christmas.

MATRICULATION.

For admission into the University such preparation is required as will enable each student to pursue with advantage the course which he may select. As a rule, each

matriculate must be sixteen years of age. Exceptions may be allowed at the discretion of the Faculty.

EXAMINATIONS FOR ENTRANCE.

IN LATIN.—Cæsar's Gallic War (5 books), Virgil's Æneid (5 books), Cicero's Orations (4). Equivalent amounts from other authors will be accepted. A thorough acquaintance with the forms of declension and conjugation and the general principles of construction is absolutely essential. Slight deficiencies in the amount of reading may be supplied after entering.

IN GREEK.—Xenophon's Anabasis (3 books), simple exercises in translating English into Greek, Greek Grammar (Goodwin or Hadley-Allen), a good knowledge of which is required. Applicants who have not read the entire 3 books of the Anabasis, may, if the rest of their preparation is satisfactory, make good their deficiency by private study during the first term.

[Applicants for Classical course will be required to exhibit a general acquaintance with Ancient History, Geography and Mythology].

IN MATHEMATICS.—*Arithmetic*, including what is contained in Sanford's Higher Arithmetic or an equivalent work ; *Algebra*, including the Elementary rules, use of brackets, factoring, greatest common divisor, least common multiple, fractions, simple and simultaneous equations, involution, evolution, &c., to quadratic equations.

IN ENGLISH.—English Grammar (Whitney, Bain), Introduction to Rhetoric and Composition (Chittenden and D. J. Hill or Reed and Kellogg , Outlines of English and American History and Literature (Freeman, Gilman). Special attention, it is hoped, will be given to preparation for this department, so that it shall include studies in well-annotated standard authors (Riverside Edition, Ginn & Co.'s, Heath's, Rolfe's, Swinton's).

Applicants wishing to pursue the Classical course are examined in all the above studies. Those desiring to take the Philosophical course are examined in Latin or Greek, according to selection made, Mathematics and English. For the Scientific course the applicants are examined in Mathematics and English.

Optional students are examined in such of the above as relate to the studies they select.

For admission into advanced classes, applicants will be examined in the studies completed by the classes they wish to join.

UNDERGRADUATE COURSES OF STUDY.

The Faculty recommends one of the following courses of study:

[The figures in parentheses denote the number of recitations or lectures per week.]

I. CLASSICAL COURSE.

This leads to the degree of Bachelor of Arts, (A. B.)

FIRST YEAR.

FIRST TERM—Algebra (4), Latin (4), Greek (4), English (2), History (1), Hygiene (six lectures), Practical Morals (six lectures).

SECOND TERM—Geometry (4), Latin (4), Greek (4), English (2), History (1).

SECOND YEAR.

FIRST TERM—Trigonometry (4), Latin (4), Greek (4), Chemistry (3), English (1).

SECOND TERM—Analytical Geometry (4), Latin (4), Greek (4), Chemistry (3), English (1)

THIRD YEAR.

FIRST TERM—Physics (4), Logic (2), English (1), Elective (9), of which at least (3) must be devoted to a modern or classic language.

SECOND TERM—Physics (4), Logic and Psychology (2), English (1), Elective (9), subject to same condition as in first term.

FOURTH YEAR.

FIRST TERM—Political Economy (3), English Literature (3), Essays and Orations (1), Psychology and Moral Philosophy (2), Elective (6), subject to same condition as in third year.

SECOND TERM—Constitutional and International Law (3), English Literature (3), Essays and Orations (1), Moral Philosophy (2), Elective (6), subject to same condition as in third year.

ELECTIVE STUDIES—History (3), French (3), German (3), Latin (4), Greek (4), Anglo-Saxon (3), Industrial Chemistry (3), Qualitative Chemical Analysis (3), Quantitative Chemical Analysis and Assaying (3), Physiology, Zoology and Botany (3), Economic Entomology (3), Advanced Botany (3), Surveying and Engineering (3), Calculus (4), Practical Horticulture (2), Bio-

logical Laboratory (2), Astronomy (1½), Theoretical Mechanics (1½), Geology (1½), Mineralogy (1½), Metallurgy (1½), Mental and Moral Philosophy (2), Physics (2).

2. PHILOSOPHICAL COURSE.

This leads to the degree of Bachelor of Philosophy, (Ph. B.)

FIRST YEAR.

First Term—Algebra (4), Latin or Greek (4), German or French (3), English (2), History (1), Physiography (1), Hygiene (six lectures), Practical Morals (six lectures).

Second Term—Geometry (4), Latin or Greek (4), German or French (3), English (2), History (1), Physiography (1).

SECOND YEAR.

First Term—Trigonometry (4), Latin or Greek (4), German or French (3), Chemistry (3), English (1).

Second Term—Analytical Geometry (4), Latin or Greek (4), German or French (3), Chemistry (3), English (1).

THIRD YEAR.

First Term—Physics (4), Physiology (3), Logic (2), English (1), Elective (6).

Second Term—Physics (4), Zoology and Botany (3), Logic and Psychology (2), English (1), Elective (6).

FOURTH YEAR.

First Term—Political Economy (3), English Literature (3), Essays and Orations (1), Astronomy (3), Psychology (2), Elective (3).

Second Term—Constitutional and International Law (3), English Literature (3), Essays and Orations (1), Geology (3), Moral Philosophy (2), Elective (3).

Elective Studies—Studies to fill out the hours marked Elective in the above course, may be chosen from either or both of the lists of Elective Studies given under the Classical Course and Scientific Course.

3. SCIENTIFIC COURSE.

This leads to the degree of Bachelor of Science, (B. S.)

FIRST YEAR.

First Term—Algebra (4), German or French (3), or Latin (4), English (2), History (1), Entomology (1), Physiography (1), Physiology (3), Hygiene (six lectures), Practical Morals (six lectures).

SECOND TERM—Geometry (4), German or French (3), or Latin (4), English (2), History (1), Entomology (1), Physiography (1), Zoology and Botany (3).

SECOND YEAR.

FIRST TERM—Trigonometry (4), German or French (3), or Latin (4), English (1), Chemistry (3), Qualitative Chemical Analysis (3), Biological Laboratory (2).

SECOND TERM—Analytical Geometry (4), German or French (3), or Latin (4), English (1), Chemistry (3), Qualitative Chemical Analysis (3), Biological Laboratory (2).

THIRD YEAR.

FIRST TERM— Physics (4), Mineralogy (3), English (1), Elective (8).

SECOND TERM—Physics (4), Geology (3), English (1), Elective (8).

FOURTH YEAR.

FIRST TERM—Astronomy (3), Elective (12), (of which (6) must be devoted to Science).

SECOND TERM—Elective (15), (of which (6) must be devoted to Science).

ELECTIVE STUDIES—Advanced Botany (3), Quantitative Chemical Analysis and Assaying (3), Surveying and Drafting (3), Calculus (4), Anatomy and Physiology of Domestic Animals (3), History (3), Psychology and Moral Philosophy (2), English Literature (3), Political Economy, Constitutional and International Law (3), French or German (3), Economic Entomology (2), Practical Horticulture (2), Agricultural Chemistry (1½), Metallurgy (1½), Mechanics (1½), Practical Geology (3), Essays and Orations (1), Physics (2), Logic and Psychology (2), Industrial Chemistry (3).

For TEACHERS' COURSE, see DEPARTMENT OF NORMAL INSTRUCTION.

For courses in AGRICULTURE, and CIVIL ENGINEERING and MINING, see COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

For course in LAW, see SCHOOL OF LAW.

OPTIONAL COURSES.

The Faculty earnestly advises students to pursue one of the regular courses. But in proper cases they are

allowed to choose such studies out of the courses, as may be deemed most advantageous, provided they have fifteen class exercises a week, whether lectures, recitations or laboratory practice.

An optional course once chosen must be adhered to for the session, unless for special reasons the Faculty allows a change. No student is permitted to take a course not deemed by the Faculty worthy of his time and efforts.

ADVANCED OR POST-GRADUATE INSTRUCTION.

Advanced instruction is now offered in the several departments of the University.

Students who wish to pursue an advanced course of study are received with or without reference to their being candidates for a degree. In all cases the professors must be satisfied that the student is prepared to follow the instruction in the course contemplated.

Candidates for a degree are required to make written application to the faculty, stating the course they design to pursue. They must also present their diplomas or certificates from the institution with which they have been connected, testifying that they have completed a course corresponding to one of the under-graduate courses of the University.

The method of instruction will vary with the nature of the study, but the general aim will be to encourage students to undertake independent work in some special branch of study, while he is adding to his intellectual culture.

POST-GRADUATE COURSES.

[Applicants for a Master's degree must have completed the course leading to the corresponding Bachelor's degree.]

1. Classical Course.

For the degree of Master of Arts, (A. M.)

Three studies, pursued for one year, to be selected from the following groups, subject to the condition, that one study must, and two may be, selected from group 1, but not more than one from any other group.

1. Latin, Greek.
2. German, French, English.
3. Political Science, Mental and Moral Science, History.
4. Chemistry, Geology, Metallurgy, Natural History.
5. Mathematics, Natural Philosophy.

2. Philosophical Course.

For the degree of Master of Philosophy, (Ph. M.)

Three studies, pursued for one year, to be selected from the following groups, subject to the same condition as in CLASSICAL COURSE.

1. Latin, Greek, German, French, English.
2. Political Science, Mental and Moral Science, History.
3. Chemistry, Geology, Metallurgy, Natural History.
4. Mathematics, Natural Philosophy.

3. Scientific Course.

For the degree of Master of Science, (M. S.)

Three studies, pursued for one year, to be selected from the following groups, subject to the same condition as in CLASSICAL COURSE.

1. Chemistry, Geology, Metallurgy, Natural History, Mathematics, Natural Philosophy.
2. Latin, Greek, German, French, English.
3. Political Science, Mental and Moral Science, History.

4. Course for the Degree of Doctor of Philosophy, (Ph. D.)

This course requires two years:

For the *first year* the candidate may select any one of the courses offered for a Master's degree (A. M., PH. M., M. S.)

The *second year* will be devoted to a more extensive study of two of the subjects pursued in the first year.

SPECIAL CERTIFICATES.

A special certificate of graduation in a department (Latin, or Mathematics, or Chemistry, &c.,) is awarded upon application to any student who attains the required grade.

DEGREES.

BACHELOR'S DEGREES.

The Degree of Bachelor of Arts is conferred upon those students who have passed approved examinations on the studies enumerated in the under-graduate Classical Course.

The Degree of Bachelor of Philosophy is conferred upon those students who have passed approved examinations on the studies enumerated in the under-graduate Philosophical Course.

The Degree of Bachelor of Science is conferred upon those students who have passed approved examinations on the studies enumerated in the under-graduate Scientific Course.

The Degree of Bachelor of Pedagogics is conferred upon those students who have been graduated in any one of the Academic Courses, and who, in addition, have passed approved examinations on the studies enumerated in the Normal Department.

MASTER'S DEGREES.

The Degree of Master of Arts is conferred upon those students who have been accepted as qualified candidates and have pursued, with residence, the post-graduate Classical Course, passing satisfactory examinations thereon and submitting a suitable thesis.

The Degree of Master of Philosophy is conferred upon those students who have been accepted as qualified candidates and pursued, with residence, the post-graduate Philosophical Course, passing satisfactory examinations thereon and submitting a suitable thesis.

The Degree of Master of Science is conferred upon those students who have been accepted as qualified candidates and have pursued, with residence, the post-graduate Scientific Course, passing satisfactory examinations thereon and submitting a suitable thesis.

DOCTOR OF PHILOSOPHY.

The Degree of Doctor of Philosophy is conferred upon those students who have been accepted as qualified candidates and have pursued, with residence, the post-graduate course prescribed for this degree, passing satisfactory examinations thereon and submitting a suitable thesis.

LITERARY DEPARTMENT.

KEMP P. BATTLE, LL.D.,
Professor of Political Economy, Constitutional and International Law.

ADOLPHUS W. MANGUM, A. M., D. D.,
Professor of Mental and Moral Science.

GEORGE TAYLOE WINSTON,
Professor of the Latin Language and Literature.

EBEN ALEXANDER, B. A., PH.D.,
Professor of the Greek Language and Literature.

THOMAS HUME, JR., A. M., D. D.,
Professor of the English Language and Literature.

WALTER D. TOY, M. A.,
Professor of Modern Languages.

OUTLINE OF INSTRUCTION.

POLITICAL ECONOMY, CONSTITUTIONAL AND INTERNATIONAL LAW.

President Battle.

UNDER-GRADUATE CLASSES.

1. POLITICAL ECONOMY:

Instruction is given by text-books and lectures to the senior class for three hours a week for the first term. The lectures are designed to throw light on the great economical questions of the day, such as Banking, Bi-metallism, Protection, Wages, Co-operation, &c.

2. CONSTITUTIONAL LAW:

Three hours a week for the greater part of the second term of the senior class are given to this study. It is preceded by a short course in the History of American Politics. The lectures give information concerning the history of the Constitution of North Carolina as well as of the United States. The facts and principles of many leading cases, settling the construction of the Constitution of the United States are given and their connection with American history is pointed out.

3. INTERNATIONAL LAW:

A short course of lectures is given in this department to the senior class near the close of the second term.

POST-GRADUATE CLASSES.

POLITICAL ECONOMY:

In this class will be studied the works of such authorities as Roscher, Mill, Bagehot, McLeod, &c., and discussions will be required of the great unsettled questions of the Science, such as Banking, Bi-metallism, Protection, &c.

CONSTITUTIONAL LAW:

The subjects studied in this class will be the origin and development of the English Constitution, of the Constitutions of the United States and of this State. The political histories of these countries will be carefully read. Considerable attention will be paid to the Roman Law. Such works as those of Hallam, Stubbs. Yonge, Green, Bancroft, Curtis, Von Holst, Hildreth, &c , will be used, and also the opinions of Chief Justice Marshall and other Judges of the Supreme Court in leading cases.

It will be the effort of the instructor to so guide the student that he may have material with which he may intelligently form his own conclusions on the great subjects of Constitutional Law and Political Economy, which as an American citizen it will be his duty to consider.

MORAL PHILOSOPHY.

Professor Mangum.

The work by under-graduates extends through the third and fourth years of the regular courses. Lectures on Practical Morals are delivered to first year students at the beginning of the first term.

UNDER-GRADUATE CLASSES.

LOGIC.

(*Third year, first term*, 2 *hours a week.*)

PSYCHOLOGY.

(*Third year, second term*, 2 *hours a week.*)

MORAL SCIENCE.

(*Fourth year, first term*, 2 *hours a week.*)

CHRISTIAN EVIDENCES AND HISTORY OF PHILOSOPHY.

(*Fourth year, second term*, 2 *hours a week.*)

Recent changes have enabled us to extend the regular studies in this department by adding a course in the History of Ancient and Modern Philosophy.

ELECTIVE CLASSES:

An extra class in Logic or Psychology is elective in the first term of the fourth year; and in Moral Science or Philosophy in the second term (2 hours a week).

Instruction is given by text-books and lectures.

Text-books last used: Tigert's Logic, Munsell's Psychology, Porter's Moral Science, Wright's Evidences, Deems' Evolution, Haven's History of Philosophy.

POST-GRADUATE CLASSES.

In these instruction is offered in one or more branches and the subjects are varied to some extent to suit the wishes and aims of the student. In courses recently pursued we have used Hopkins, Porter, Haven, Pressensé, Ueberweg, a selection from Christlieb, and a brief comparison of Kant and Lotze.

THE LATIN LANGUAGE AND LITERATURE.

Professor Winston.

I. UNDER-GRADUATE WORK.

FIRST YEAR.

Freshman Class.—(*Daily except Thursday*).

The work includes,

(1). The critical reading on class, after study, of Cicero, Livy and Ovid.

(2). The reading at sight on class, without previous study, of Phædrus, Viri Romæ, and Novum Testamentum.

(3). Exercises in Latin Composition and the study of Latin Grammar.

(4). A course of study in Roman History, Geography and Antiquities.

Occasional lectures are given as may seem expedient.

SECOND YEAR.

Sophomore Class.— Daily except Tuesday).

The work includes,

(1). The critical reading on class, after study, of Horace, Pliny's Letters, and Tacitus or Cicero.

(2). Written abstracts, translations and criticisms of the authors read.

(3). The reading at sight on class, without previous study, of Cæsar, Nepos, and Novum Testamentum.

(4). Latin Composition and Grammar, by lectures and original exercises.

(5). A course of study in Roman Antiquities, Mythology, Law and Literature and in Comparative Philology.

A regular course of lectures is given on Comparative Philology, with especial reference to the Latin elements in the English Language; on the development of the Latin Language and its decay; on Roman Antiquities, and on such other subjects as may require special treatment.

THIRD YEAR.

Junior and Senior Classes—(Elective).—Four hours a week.

The work includes,

(1). The critical reading on class of the Roman Satirists, Rhetoricians, Dramatists, Philosophers, or Historians. The authors read this year are Seneca (de Providentia) and Cicero (Tusculan Disputations).

(2). The rapid and fluent reading on class, after study, of some masterpiece in Latin Literature, with special study of style, plot, and character. The present class reads the Æneid (12 books). It has also read some hundred and fifty pages of Latin Mediæval Religious Poetry.

(3). Exercises in composition in imitation of the authors critically read.

(4). Reading at sight in Sallust, Livy and Ovid.

(5). Theses in literature, grammar, mythology, philosophy, philology or history, embodying the results of special study.

Students admitted to these classes must have completed *with honor* the two preceding years of the course. The Latin Diploma is awarded to Juniors or Seniors, who attain the grade of ninety in scholarship during the last year of the study.

II. POST-GRADUATE WORK.

The post-graduate instruction is arranged for graduates of the University, or of other institutions of equal rank,

desiring to obtain the degree of Master of Arts, Master of Philosophy or Doctor of Philosophy, or aiming to qualify themselves to be teachers of Latin. The course is varied to suit the requirements of each case. The work is done privately by the student under the guidance of the professor, whom he meets once a week for consultation. The general character of the work is historical, philosophical, literary, philological or critical, according to the desires and necessities of the student. During this year a course of instruction has been given, mainly critical and philological, embracing critical readings in Livy, Tacitus and Terence, sight readings in various authors, and the study of the works of the leading writers on Comparative Philology.

THE GREEK LANGUAGE AND LITERATURE.

Professor Alexander.

UNDER-GRADUATE CLASSES.

FIRST YEAR.

Four recitations a week.

Lucian: Vera Historia; review of important grammatical principles (Goodwin or Hadley-Allen); prose composition (once a week); Homer; 3 books of the Iliad; selections from Herodotus or Plutarch; reading at sight throughout the year.

SECOND YEAR.

Four recitations a week.

Demosthenes: 3 Philippic Orations. or the Oration on the Crown; Thucydides (selections); Euripides: Bacchantes; or, Sophocles: Antigone; Aristophanes: Clouds; prose composition, based on the texts read; Greek History, Literature and Antiquities; reading at sight.

THIRD YEAR.

(*Elective*).—*Four recitations a week.*

Plato: Apology and Crito; Xenophon: Oeconomicus; Pindar: Selected Odes; Æschylus: Prometheus; Homer: Rapid reading of the Odyssey; Greek Philosophy (Mayor's Sketch); Modern Greek: a short course, mainly devoted to the reading of Greek newspapers; reading at sight.

POST-GRADUATE INSTRUCTION.

The work is arranged, so far as possible, to meet the needs of each student. Usually, the writings of some one author, or special departments of literature, are continuously studied. Seminary methods are adopted. During 1887–8, one or more of the following courses will be offered:

I. Educational theories of Greek writers, Aristotle, Plato, Plutarch and others. II. A critical survey of the Greek Drama, with the reading of representative tragedies and comedies. III. Greek Archæology, in connection with Pausanias's Description of Greece and recent works on the subject. IV. A survey of Greek Oratory, with the Rhetoric of Aristotle and the critical reading of Attic Orators. V. Philology and Comparative Grammar of Greek.

ENGLISH LANGUAGE AND LITERATURE.

(Including Anglo-Saxon.)

Professor Hume.

UNDER-GRADUATE CLASSES.

FIRST YEAR.

Two hours a week.

Grammar and Rhetoric (Bain). Haldeman's Etymology. Nineteenth Century Literature. Minto's Scott's Poems. Rolfe's Byron's Childe Harold. Parallel Reading in Irving, in Scott's Prose Romances and Shakspere's King John with English History. Skeat's Concise Dictionary.

SECOND YEAR.

One hour a week.

Historical Grammar (Morris or Lounsbury). The English of Shakspere. (Craik's Julius Cæsar). Parallel Reading in Peile's Philology. Richard the Second. Eighteenth Century Literature (Swift to Goldsmith). Parallel Reading in Thackeray's Humorists. English Men of Letters Series.

THIRD YEAR.

One hour a week.

Art of Poetics (Gummere). Longer English Poems (Hales). Henry the Fourth and Henry the Fifth. Parallel Reading in Malory's Morte

d'Arthur and Tennyson's Idyls of the King with Professor's Guide to Study and Written Exercises.

FOURTH YEAR.—LITERATURE.

Three hours a week: ESSAYS AND ORATIONS.—*One hour a week.*

LITERATURE.—Dowden's Shakspere Manual, with special readings in Hudson. Richard the Third, with lecture on Shaksperian and other illustrations of English History. Two Comedies, with lectures on Sources and Characters and Study of Versification. Chaucer's Prologue and Two Tales. Spenser (Two Cantos). Hamlet (with printed Guide to Study). Milton (Browne's or Cleveland's Edition). Lectures on the History of the Language, on English Fiction, on The Sonnet.

ESSAYS AND ORATIONS —Lectures on Methods of Composition (Bain) and History of Oratory. Essays of Bacon, Macaulay, Carlyle, Matthew Arnold. Select Orations from Burke to Gladstone. Practice in Writing Analyses and Criticisms and in Speaking.

ANGLO-SAXON.

(*Elective*).—*Three hours a week.*

Anglo-Saxon Grammar (Sweet). Gospel of John (Corson). Selections from Aelfric and King Alfred. The Saxon Chronicle. Layamon's Brut. Marsh's Early Literature.

POST-GRADUATE COURSE.

Selections may be made from subjects or groups announced by the Professor. During this session No. 1 and 2 (below) have been studied by post-graduate classes:

1. Comparative Saxon Grammar. Robert of Gloucester. Piers' Plowman (Skeat's Edition). Wycliffitte Scriptures. Beowulf (Harrison and Sharp's Edition). Ten Brink's Early Literature.

2. Rise and Progress of the Drama in England, with Comparative Studies showing the influence of other Literatures. The Classical and Romantic Schools. History of the Drama in Schlegel and Ward and Hudson. Pre-Shaksperian Drama and Ben-Jonson in Symonds. Chester Mysteries (New Shakspere Society's Edition). Comedy from Roister Doister (Arber) through Green. Lyly's Court Comedies. Shakspere and Jonson, to Comedy of the Restoration. Tragedy from Gorboduc through Kyd, Marlowe, Shakspere, Jonson, Marston, Heywood, Webster, to Beaumont and Fletcher. Chronicle Plays from Peele through Marlowe to Shakspere. Pastorals and Masques in Ben Jonson, Fletcher, Milton. Massinger and Ford. Dryden and French Influence.

MODERN LANGUAGES.

Professor Toy.

The subjects taught in this department are the French and German languages and their literatures.

UNDER-GRADUATE CLASSES.

I. FRENCH.

1. *Three times a week throughout the year.*
Whitney's Practical French Grammar. *Anecdotes nouvelles. Télémaque* or George Sand, *La Mare au diable.* Written and oral exercises. Masson's or Gasc's Dictionary.

2. *Three times a week throughout the year:*
Harrison's Syntax (for reference). Erckmann Chatrian, *Le Conscrit de* 1813, or Feuillet, *Le Roman d'un Jeune Homme Pauvre;* Corneille, *LeCid.* Selections from Molière and Victor Hugo. French Literature (lectures, 2d term.) Written exercises.

3. (Elective). *Three times a week throughout the year:*
Introduction to the study of the French Drama, both of the classic and the romantic schools. Large amounts will be read and compared with specimens of the English Drama. Lectures on Dramatic Art.

II. GERMAN.

1. *Three times a week throughout the year:*
Sheldon's Grammar. Grimm's *Mœrchen.* Fouqué, *Undine.* Written and oral exercises. Whitney's or Thieme's Dictionary.

2. *Three times a week throughout the year:*
Whitney's Compendious Grammar. Freytag, *Die Journalisten;* Schiller, *Maria Stuart;* Lessing, *Minna von Barnhelm;* Goethe's *Aus Meinem Leben* (selections) German literature (lectures, 2d term). Written exercises.

3. (Elective . *Three times a week throughout the year:*
Goethe, *Faust* (Part 1); Lessing, *Nathan der Weise;* Schiller, *Thirty Years' War;* Ebers, *Homo Sum;* History of Germany (in German); Lectures on Literary Criticism; discussion of written theses by the members of the class.

In each language Class 1 is designed to give an *exact acquaintance* with the grammatical forms and the principles of syntax.

The instruction is given partly by grammatical text books and exercises, written and oral, but chiefly by a careful study of good prose. The class reads as widely as possible. At the end of the year the student is expected to translate simple prose at sight.

In Class 2, some difficult points of grammar are discussed, but most of the time is given to the reading and literary criticism of standard writers, classic and modern.

In Class 3, large amounts will be read, in order to obtain a just appreciation of certain literary periods.

The following scheme shows how these classes are offered :

	French.	*German.*
1887–8	1 and 3	2 and 3
1888–9	1 and 2	1 and 3
1890–1	2 and 3	1 and 2
1891–2	1 and 3	2 and 3

POST-GRADUATE WORK.

Subjects for post-graduate work will be assigned upon application. Candidates from this University must have completed successfully the Elective Class (No. 3) in the language chosen. The work may be either of a literary or philological character, and must in all cases be done by original investigation. Outlines of work will be assigned, as nearly as possible, according to the ultimate aims of the student. The following are specimens of possible subjects:

1. The position of Victor Hugo in literature, politics and philosophy. 2. French Grammar and Literature in the 16th Century. 3. Old French Grammar and the interpretation of selected texts. 4. Middle High German Grammar, interpretation of the Niebelungenlied. 5. Development of early dramatic types and the genesis of the classic German Drama.

Special lectures and regular conferences will be announced as occasion requires. The student will be instructed in the preparation of critical theses.

SCIENTIFIC DEPARTMENT.

RALPH HENRY GRAVES, B. Sc., C. and M. E.,
Professor of Mathematics.

FRANCIS PRESTON VENABLE, Ph. D., F. C. S.,
Professor of General and Industrial Chemistry.

JOSEPH AUSTIN HOLMES, B. Agr.,
Professor of Geology and Natural History.

JOSHUA WALKER GORE, C. E.,
Professor of Natural Philosophy and Engineering.

WILLIAM B. PHILLIPS, Ph. B., Ph. D.,
Professor of Agricultural Chemistry and Mining.

JAMES LEE LOVE. Ph. B.,
Assistant Professor of Mathematics.

GEO. F. ATKINSON, Ph. B.,
Assistant Professor of Natural History.

OUTLINE OF INSTRUCTION.

MATHEMATICS.

Professor Graves and Assistant Professor Love.

UNDER-GRADUATE CLASSES.

FIRST YEAR.

Four recitations a week.

In the first term the student finishes the study of Algebra, discussing Quadratic Equations, Arithmetical and Geometrical Progression, the Binomial Theorem and various other series, Permutations, Combinations, Logarithms, &c.

In the second term the study of Geometry is taken up and completed. The course embraces both Plane and Solid Geometry—as much as is included in Wentworth's or Chauvenet's text-books on the subject.

SECOND YEAR.

Four recitations a week.

Construction and use of Tables of Logarithms, Plane and Spherical Trigonometry, with applications, Analytic Geometry.

Text books :—Newcomb's Trigonometry and Tables, Smith's Conic Sections.

THIRD YEAR.

(*Elective*) —*Four recitations a week.*

Solid Analytic Geometry, Differential and Integral Calculus.

Text-books :—Venable's Notes on Solid Geometry, Williamson's Differential Calculus, Williamson's Integral Calculus.

POST-GRADUATE CLASSES.

The work in these classes extends over one or two years.

The studies consist of selections from more advanced topics, such as Theory of Equations, Theory of Determinants, Differential Equations, Modern Algebra, Modern Geometry, Quaternions, &c.

During a portion of the present session, a class has studied Muir's Determinants and Burnside and Panton's Theory of Equations.

Each student is constantly stimulated and assisted in his work and his progress is tested by oral and written examinations.

CHEMISTRY.

Professor Venable

UNDER-GRADUATE CLASSES.

GENERAL CHEMISTRY.

Three lectures a week through the year.

The facts and general principles of Chemistry are presented in the following order:

1. Chemical Physics
2. The Chemistry of the Non-metals and Metals.
4. Organic Chemistry.

Instruction is given mainly by lectures and these are illustrated by numerous experiments. The following reference books are recommended: Richter's Chemistry; Watts' Chemistry; Remsen's Inorganic and Organic Chemistry; Roscoe & Schorlemmer's Treatise on Chemistry.

INDUSTRIAL CHEMISTRY.

Three lectures a week through the year.

A knowledge of General Chemistry is a pre-requisite to this course. The applications of Chemistry to the arts and manufactures will be considered under this heading.

The subjects treated of will be the manufacture of glass, porcelain and earthenware; foods, their production, preparation and adulteration; clothing, printing, dyeing, bleaching, tanning; building materials; manufacture of candles, soap, ink, matches, &c..

Reference-books :—Wagner's Chemical Technology, Ure's Dictionary of Arts and Manufactures.

INDUSTRIAL MUSEUM.—Many specimens of crude and manufactured products have already been gathered for purposes of class illustration, and continual additions are being made to the collection.

POST-GRADUATE CLASS.

The study of Theoretical Chemistry will be pursued with such text-books as Remsen, Wurtz and Meyer. The student will be required to prepare lists of chemical compounds, tabulate physical constants and make bibliographies of special chemical substances, using for the purpose chemical dictionaries and the various chemical periodicals.

ANALYTICAL CHEMISTRY.

Professor Venable and Professor Phillips.

UNDER-GRADUATE CLASSES.

The aim in this study will be to prepare students to become Analytical Chemists, Teachers of Chemistry, or Druggists. There are two classes.

QUALITATIVE ANALYSIS.

Three afternoons a week through the year.

Fall term—Blow-pipe Analysis. Spring term—Wet Analysis. *Text-books :* Landauer's Blow-pipe Analysis and Venable's Qualitative Analysis.

QUANTITATIVE ANALYSIS.

(*Elective*).—*Five afternoons a week through the year.*

Full instruction is given in practical chemistry, including the analysis of ores, soils, manures, technical products, &c. Students are also encouraged to undertake original researches.

POST-GRADUATE WORK.

Advanced and post-graduate work will be assigned in inorganic or organic laboratory work to any student desiring it.

A deposit of ten dollars is required of each student to defray the cost of apparatus and chemicals. The new laboratories are provided with water, gas and all other appliances for the prosecution of scientific work.

AGRICULTURAL CHEMISTRY, MINERALOGY AND MINING.

Professor Phillips.

UNDER-GRADUATE CLASSES.

1. AGRICULTURAL CHEMISTRY.

(*Elective*).—*Three hours per week during the fall term.*

A knowledge of General Chemistry is required. Lectures and text-books to be announced at the beginning of the course.

2. MINERALOGY.

Three hours per week through the year.

Fall term—Crystallography and Descriptive Mineralogy. Spring term—Descriptive and Determinative Mineralogy. *Text-books:* Dana's Manual of Mineralogy and Petrography and Cornwall's Blow-pipe Analysis. *Reference-book:* Dana's System of Mineralogy.

Only those who have been approved in General Chemistry and Qualitative Analysis can enter this class.

Especial attention is given to Determinative Mineralogy, both by the blow-pipe and the system of Weisbach.

Access is afforded under care of the Professor to nearly 3,000 specimens of minerals.

MINING AND METALLURGY.

(*Elective*).—*Three hours a week, spring term.*

Some knowledge of Chemistry, Geology and Mineralogy is required of every student. Subjects discussed: The Origin and Nature of Ore Deposits; Prospecting and Opening; Underground Work, Blasting, Hauling, Hoisting; Ore Dressing; Smelting. *Text-books:* Merivale's Notes for Mining Students; Bloxam and Huntingdon's Metals. *Books of reference:* Phillips' Explorer's and Assayer's Companion; Phillips' Ore Deposits; Percy's Metallurgy.

An excellent collection of ores, fuels and metallurgical products is accessible to the class, under care of the Professor.

ASSAYING.

(*Elective*).

The course in Assaying begins in January and continues two months, or longer if desired.

Text-book: Rickett's Notes on Assaying. *Reference book:* Mitchell's Assaying.

GEOLOGY AND NATURAL HISTORY.

Professor Holmes and Assistant Professor Atkinson.

I. GEOLOGY.

Professor Holmes.

UNDER-GRADUATE CLASSES.

The instruction in this subject includes the following:

1. GENERAL GEOLOGY.

Three lectures per week during the second term.

The lectures are accompanied by occasional field excursions and work in the laboratory.

2. PRACTICAL GEOLOGY.

(*Elective*).—*Three hours per week throughout the year, or during either term:*

To this class are admitted students who have passed satisfactorily the examination in General Geology.

During the first term the time is devoted to Field Geology and Lithology.

During the second term the nature of the work varies according to circumstances.

The Geological Laboratory is provided with microscopes, microscopic sections of common rocks and minerals, and collections of rocks and minerals.

Text-books and books of reference: LeConte's Elements of Geology, Dana's Manual of Geology, Geikie's Text-Book of Geology, Geikie's Field Geology, Williams' Economic Geology, Reports of the U. S. Geological Survey, North Carolina and other State Surveys.

POST-GRADUATE WORK.

Post-graduate courses have been arranged as follows:

1. In General Geology, including the general principles of Dynamical, Structural and Historical Geology.
2. Economic Geology, in which special attention is given to the Geology of North Carolina.
3. Lithology and Field Geology, including special study of rocks, and geological field work about Chapel Hill and in other sections of the State during the summer vacation.

Text-books and details of courses will be given as these courses are assigned.

II. BOTANY.

Professor Holmes.

UNDER GRADUATE CLASSES.

The following courses are offered:

1. ELEMENTS OF BOTANY.

Three lectures per week during the latter half of the second term.

This is designed as an elementary course for the general student, and as an introductory course for students intending to do advanced work in Botany.

2. ADVANCED BOTANY.

(*Elective*).—*Three hours per week during the year.*

Under this heading two classes have been organized. These alternate, the instruction in each being given every two years.

(*a*) SYSTEMATIC AND APPLIED BOTANY.

The work in this class consists largely of the systematic study of the flowering plants of the Chapel Hill region, in the laboratory and the field.

Students who desire to do so, may collect, identify and preserve specimens of plants at their homes during the summer vacation; and such specimens properly mounted will be counted in the class work for that year.

(*b*) AGRICULTURAL BOTANY.

The course may be subdivided into the following:

(1) Cryptogamic Botany, in which special attention is paid to the fungoid diseases of agricultural plants.

(2) Grasses and Forage plants, taken up during the first half of the second term.

(3) Vegetable Physiology, in which special attention is given to the growth of agricultural plants as affected by cultivation, different kinds of soils and fertilizers.

3. HORTICULTURE.

(*Elective*).— *Two lectures per week through the year.*

During the first term the instruction is devoted mainly to the subjects of forestry, orchards and vineyards.

During the second term the following subjects are treated:

Farm and garden soils; cultivation of common vegetables and garden fruits; some general principles in landscape gardening.

Text-books and books of reference: Gray's Lessons and Manual of Botany, Gray's Botanical Text-books, Chapman's Southern Flora, Sach's Text-books, Bessey's Botany, and others of a special character.

The laboratory contains a small herbarium and collections of native woods and other vegetable products.

POST-GRADUATE WORK.

Post-graduate work in Botany will embrace the following courses:

1. Work in the field and laboratory on the Chapel Hill flora.
2. Special work on special groups of plants.
3. A general course in Economic and Systematic Botany.

Text-books and details furnished on application.

III. ZOOLOGY.

Professor Atkinson.

UNDER-GRADUATE CLASSES.

Instruction will be given in the following subjects:

(1) HYGIENE.

A course of five lectures will be given at the beginning of the first term relating to the care of the general health.

2. PHYSIOLOGY.

Three lectures per week during the first term.

Special attention will be given to the comparative physiology of respiration and circulation. The lectures will be illustrated by microscopic exhibitions of some of the lower forms of animal life, the tissues and blood of higher animals, circulation of blood in the web of a frog's foot, and by painless experiments upon animals.

(3) GENERAL ZOOLOGY.

Three lectures per week during the first half of the second term.

A part of the time will be devoted to the study of representative forms by the student himself.

(4) BIOLOGICAL LABORATORY.

In this course facilities will be offered for practical work in the dissection of animals, illustrating and amplifying the studies in physiology and general zoology. After becoming familiar with methods in the preliminary work, the student may elect, upon consultation with the professor in charge, a line of work more suited to his taste and needs.

During the second term of this study, the student may, with the Professor's permission, devote special attention to ORNITHOLOGY. This work will be conducted by lectures, laboratory and field work. Attention will be given to birds, beneficial and injurious, to the habits of birds in migrations, nesting, etc., and to the collection and preservation of specimens representing the birds of North Carolina. The study occupies five hours of actual work per week, and counts two hours per week for one year.

(5) ENTOMOLOGY.

A course extending through the year in the study of insects will be given introductory to the study of general zoology and economic entomology. The study will be conducted by means of lectures and field excursions. This is intended to lay the foundation for more satisfactory work in advanced entomology. The course counts one hour per week for one year.

(6) ADVANCED ENTOMOLOGY.

(*Elective*).

In the advanced work facilities are offered for various courses, as the student may desire. Some of the courses are as follows: ECONOMIC ENTOMOLOGY.—Special attention will be given to the habits and life history of insects injurious to vegetation, and remedies for insect ravages. Facilities will be offered for original work in breeding insects and noting their transformations.

INSECT BIOLOGY AND CLASSIFICATION.—Under this head students who have attained a fair degree of excellence in the elementary work, may pursue various courses with the special object of training for original scientific work. In all of the advanced courses lectures will be given upon the classification and metamorphoses of insects. Field excursions for the purpose of collecting insects and to observe their habits in nature will form an important feature of the work. The course counts two hours a week throughout the year.

(7) ANATOMY AND PHYSIOLOGY OF DOMESTIC ANIMALS.

Three hours per week during the first term.

The course will be given once in two years, alternating with (8).

(8) FEEDING AND BREEDING OF DOMESTIC ANIMALS.

Three hours per week during the first term.

The course will be given once in two years, alternating with (7)

Special arrangements will be made with students wishing to collect specimens for the museum during the summer vacation, so that the work will count in one of their courses. Upon application the Professor in charge will give further nformation.

Text-books and books of reference: Martin's Human Body; Flint's Text-Book of Human Physiology; Yeo's Manual of Physiology; Parke's Hygiene; Dalton's Physiology; French's Butterflies of the Eastern United States; Saunders' Insects Injurious to Fruits; Harris' Insects Injurious to Vegetation; Packard's Guide to the Study of Insects; Claus' Text-Book of Zoology; Brooks' Hand-Book of Invertebrate Zoology; Huxley's Anatomy of Invertebrate Animals; Huxley's Anatomy of Vertebrate Animals; Wilson's American Ornithology; Coues' Key to the Birds of North America; and others.

The laboratory contains a large and valuable collection of insects and over eighty different kinds of birds, also many animals.

POST-GRADUATE WORK.

1. There will be post-graduate courses in Animal Biology, Systematic Zoology and Physiology.

2. ENTOMOLOGY.—The post-graduate courses in this subject have been arranged as follows:

a.—Systematic Entomology, including the identifying of a number of species representative of the more important orders. If desired, a special study of any one group may follow the general principles of classification.

b.—Economic Entomology.—In this course advanced work will be pursued on the subject as outlined in (6) of the under-graduate work. In addition, the student will be expected to conduct experiments with remedies for injurious insects.

NATURAL PHILOSOPHY AND ENGINEERING.

Professor Gore.

UNDER-GRADUATE CLASSES.

PHYSICS.

This class meets four times weekly throughout the academic year.

During the fall term an elementary course is given, and during the spring term the class will study certain parts of the subject in a more extended manner.

Text-books announced at the beginning of session.

PHYSICS.

(*Elective*).—*Two recitations weekly during the year.*

This class is offered to allow those students who are sufficiently interested, to complete the subject as pursued during the spring term of the required course.

ASTRONOMY.

Three recitations weekly during the first term.

The subject is pursued as a branch of liberal education and hence treats of Spherical, Practical and Theoretical Astronomy, and Cosmical Physics. An elementary knowledge of Analytic Geometry is required for admission to the class.

Text-book: Newcomb and Holden's Astronomy.

MECHANICS.

(*Elective*).—*Three recitations weekly during the second term.*

The subject includes Statics, Dynamics, the Theory of Central Forces and an introduction to Rigid Dynamics. It is studied with the aid of Pure Mathematics, and constitutes a portion of Applied Mathematics. For admission to this class an elementary knowledge of Analytic Geometry is necessary.

Text-book: Todhunter's Mechanics.

SURVEYING.

(*Elective*).—*Three times weekly during the first term.*

Theory and use of Instruments, Measuring of Land, Laying off and Dividing up of Land, and Platting Surveys.

PROJECTION DRAWING.

(*Elective*).—*Three times weekly during the second term.*

Descriptive Geometry, Orthogonal and Oblique Projections, Projections of Shades and Shadows; Working Drawing of Machines and Detail Drawings.

ADVANCED OR POST-GRADUATE CLASSES.

PHYSICS.—Students will be admitted to this class who have completed the under-graduate class or its equivalent. The instruction will be experimental and theoretical.

EXPERIMENTAL.—Use of apparatus for illustration. Physical Manipulation, Physical Measurements with instruments of precision.

THEORETICAL.—Method of Least Squares, Reduction of observations, study of advanced works on selected portions of Physics.

MECHANICS.—Members of this class will study advanced works on the subjects of Statics and Dynamics with the aid of Differential and Integral Calculus.

NORMAL DEPARTMENT.

Kemp P. Battle, LL. D., President.
Nelson B. Henry, Professor of the Science and Art of Teaching.

The Normal Department, designed to train teachers for the schools of the State, has been established in accordance with the Constitution thereof, and by recent Act of the Legislature, is free of tuition to young men preparing themselves for the purpose of teaching, on the condition that they sign a pledge to teach at least one year after leaving the University.

On passing approved examinations upon the studies enumerated in the Normal Department, the student will receive a certificate attesting this fact, and setting forth the degree of proficiency attained.

NORMAL COURSE.

FIRST YEAR.

First Term.—English (2), Algebra (3), Physiology (3), History of North Carolina (2), Commercial Arithmetic (1), Reviews and Methods of Teaching (5).

Second Term.—English (2), Algebra (3), Zoology and Botany (3), History of United States (2), Book-keeping (1), School Economy (4).

SECOND YEAR.

First Term.—English (1), Algebra (4), Physical Geography (1), Elocution (2), Chemistry (3), or Physics or Latin (4), Graded Schools (3), Seminary (1).

Second Term.—English (1), Physical Geography (1), Geometry (4), Chemistry (3), or Physics or Latin (4), Methods of Culture (2), History of Education (3), Seminary (1).

*OUTLINE OF INSTRUCTION.

SCIENCE AND ART OF TEACHING.

Professor Henry.

METHODS OF TEACHING.

For number of recitations see Normal Course.

As will be seen, the elementary branches constitute the course. Each subject is presented (1) from the standpoint of the pupil, and (2) from that of the teacher—"What am I to learn, how am I to teach it?" Importance is attached to methods of teaching in every branch, but particular stress is laid upon Grammar and Arithmetic.

SCHOOL ECONOMY.

Four times weekly the second term.

School houses and grounds, school organization, course of study and daily programme, school ethics, qualifications of the teacher, the patrons and school officers.

GRADED SCHOOLS.

Three times weekly the first term.

Organizing and grading city schools, examinations, promotions, records, reports, institute work, the superintendent and his assistants, educational literature, etc.

HISTORY OF EDUCATION.

Three times weekly the second term.

Historical development of education among the nations of antiquity, stress laid upon the progress of modern education in Europe and the United States.

METHODS OF CULTURE.

Twice weekly the second term.

Psychology and culture of perception, memory, imagination, reasoning, the feelings and the will; natural order of mental development and consequent order of studies; the temperaments and their influence upon school life.

SEMINARY.

Alternate Tuesday evenings.

The study of special topics. Occasional lectures from distinguished educators.

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*For the Outline of such studies in the Normal Course as do not appear below, see Literary and Scientific Departments

COLLEGE OF AGRICULTURE

AND THE

MECHANIC ARTS.

FACULTY.

KEMP P. BATTLE, LL, D.,
President.

FRANCIS P. VENABLE, PH. D., F. C. S.,
Professor of General and Industrial Chemistry.

JOSEPH A. HOLMES, B. AGR.,
Professor of Geology, Botany and Horticulture.

JOSHUA W. GORE, C. E.,
Professor of Natural Philosophy and Engineering.

WILLIAM B. PHILLIPS, PH. B., PH. D.,
Professor of Agricultural Chemistry and Mining.

GEO. F. ATKINSON, PH. B.,
Assistant Professor of Zoology and Entomology.

NOTE.—In the studies of the courses given below, which are not included under the above professorships, instruction is given by the other members of the University Faculty in whose departments these studies respectively belong.

This college is established in connection with the University in obedience to the act of the General Assembly of North Carolina of March, 1867, transferring to the University the Land Scrip granted to the State by Act of Congress of July 2nd, 1862, commonly known as the Land Grant Act. By the terms of the last mentioned act the interest of the fund must be inviolably appropriated "to the endowment, support and maintenance of at least one college, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits

and professions of life." By the Act of Assembly of March, 1867, the University is to have at least two professorships devoted to the instruction above prescribed.

In accordance with the provisions of the above mentioned acts of Congress and the General Assembly, courses of study are offered in AGRICULTURE, and ENGINEERING and MINING.

AGRICULTURE.

I. FOUR YEARS' COURSE.

This leads to the degree of Bachelor of Science (B. S.) with a Certificate in Agriculture.

The first two years of this course are the same as the corresponding years of the SCIENTIFIC COURSE. See page 19.

THIRD YEAR.

FIRST TERM.—Mechanics (4), Mineralogy (3), Industrial Chemistry (3), Agricultural Botany (3), Entomology (2).

SECOND TERM.—Physics (4), Geology (3), Industrial Chemistry (3), Agricultural Botany (3), Entomology 2).

FOURTH YEAR.

FIRST TERM.—Land Surveying (3), Astronomy (3), Domestic Animals (3), Horticulture (2), Elective (4).

SECOND TERM —Agricultural Chemistry (3), Horticulture (2), Elective (10).

II. TWO YEARS' COURSE.

This course leads to no degree, but students completing it, and attaining the proper degree of proficiency in the several studies, will receive a certificate to that effect.

FIRST YEAR.

FIRST TERM.—Algebra (4), Physiology (3), Chemistry (3), Qualitative Laboratory Practice (3), English (2), Entomology (1), Hygiene, six lectures.

SECOND TERM.—Geometry (4), Zoology and Botany (3), Chemistry (3), Qualitative Laboratory Practice (3), English (2), Entomology (1).

SECOND YEAR.

FIRST TERM.—Mechanics (4), Agricultural Botany (3), Anatomy and Physiology of Domestic Animals (3), Injurious and Beneficial Insects (2), Principles of Horticulture (2), Business Law (1).

SECOND TERM.—Agricultural Chemistry (3), Geology (3), Agricultural Botany (3), Feeding and Breeding of Domestic Animals (3), Injurious and Beneficial Insects (2), Practical Horticulture (2).

CIVIL ENGINEERING AND MINING.

FOUR YEARS' COURSE.

The Course leads to the degree of Bachelor of Science, (B. S). with a Certificate in Civil Engineering and Mining.

The first two years of the course are the same as the corresponding years of the SCIENTIFIC COURSE. See page 19.

THIRD YEAR.

FIRST TERM.—Physics (4), Mineralogy (3), Calculus (4), Surveying and Drafting (3).

SECOND TERM.—Physics (4), Geology (3), Calculus (4), Surveying and Drafting (3).

FOURTH YEAR.

FIRST TERM.—Engineering (3), Mining and Assaying (3), Quantitative Chemical Analysis (3), Practical Geology (3), Astronomy (3).

SECOND TERM.—Engineering (3), Metallurgy (3), Quantitative Chemical Analysis (3), Theoretical Mechanics (3), Elective (3).

SCHOOL OF LAW.

Hon. Kemp P. Battle, LL. D., President.
Hon. John Manning, A. M., LL. D., Professor.

This department contains two classes:

1. The Independent Class.
2. The Junior Class.

While particular attention is directed to preparation for obtaining license to practice law in the courts of this State, the student will be invited to pursue a more extended course, and to obtain a broad and liberal knowledge of the law.

Wherever the law of North Carolina differs from that enunciated in the text-books, information is given of such difference and the reason therefor. Lectures are given from time to time on such subjects as have been greatly modified by our statutes, such as Marriage, Descent, Wills, Limitations, Exemptions from Executions, &c.

A Moot Court for the discussion of law questions, and for instruction in the practice of the courts, is regularly held by the Professor.

THE PLAN OF STUDIES comprises: (A) The course prescribed by the Supreme Court of the State for applicants for license to practice. (B) A course of study for those desiring to compete for the degree of Bachelor of Laws.

Text-books: (A) Blackstone's Commentaries, Washburn on Real Property, Schouler on Executors, Stephen on Pleading, Chitty's Pleading, Adams' Doctrine of Equity, 1st Greenleaf on Evidence, Smith on Contracts, Addison or Bigelow on Torts, Constitution of the United States and of North Carolina, Code of North Carolina, particularly the Code of Civil Procedure. (B) Parsons on Contracts, Pierce on American Railroad Law, Angell & Ames on Corporations, Willard's Equity Jurisprudence, Cooley's Constitutional Limitations, Wharton's Criminal Law, and Best's Principles of Evidence.

To complete the entire course will ordinarily require two years, at the end of which the degree of Bachelor of Laws will be conferred on such students as shall pass an approved examination.

Those joining class (A) during the course, standing an approved examination on the books already read, or their equivalents, will be allowed to compete for this degree.

The advantages offered by this school are: 1. The use of the University and Society libraries, amounting in the aggregate to over twenty-five thousand volumes. 2. The training to be derived from participation in the debates and other exercises of the two literary societies. 3. The opportunity afforded, on easy terms, of attending the lectures of the President and such other lectures as they may desire. 4. Freedom from temptation and the stimulant to study found in the University regulations, and in the atmosphere of study and of books pervading Chapel Hill.

TERMS, PAYABLE IN ADVANCE: For both courses, "A" and "B," $150. For the Independent Class per session of forty weeks, $100. For the Junior Class per session of forty weeks, one recitation per week, $50.

The Junior Class is intended for young men attending other classes in the University.

SUMMER COURSE.

The summer course will begin July first and continue until the last Thursday in August. Two classes, Senior and Junior. Fees for Senior $30.00, for Junior $30.00, for both $50.00.

Students will be received at any time and for any period. In such cases, reasonable deduction of tuition fees will be made.

The sessions and vacations of this department (except those of the summer course) are the same as those of the University.

DONATIONS TO THE LIBRARIES,

During the year ending April 1, 1887.

TO THE UNIVERSITY LIBRARY.

By Hon. W. R. Cox,
Dr. H. E. Dwight,
Hugh O. Thomas, Esq.,
Friederich Goppelsraeder,
Robt. Maclay, Esq.,
Albert M. Raub, Esq.,
W. Baker & Co.,
R. Clarke & Co.,
Prof. N. H. Winchell,
Mrs. W. C. Kerr,
Rev. Dr. Hills,
Sylvester Hassell, Esq.,
Prof. G. T. Winston,
Treasury Department,
Department of the Interior,
Bureau of Education,
By Navy Department,
Department of State,
Mexican Legation,
University of Wisconsin,
State Agr. Exp. Station,
Commissioner of Labor,
Editors of University Magazine,
State Librarian, Kansas,
Royal Society of Canada,
State Librarian, N. J.,
Boston Public Library,
Smithsonian Institute,
Sec'y Am. Ass'n for Advt. of Sci.,
State Hort. Society,
State Agr. College, Kansas,
Chief Signal Officer, U. S. A.,
State Mineralogist, Cal.

TO THE PHILANTHROPIC LIBRARY.

By Dr. K. P. Battle.
S. B. Weeks.
By J. M. Morphis.

TO THE DIALECTIC LIBRARY.

By Hon. Angus R. Kelly,
Hon. Z. B. Vance.
By Hon. Montford McGehee.

DONATIONS TO THE READING ROOM.

By the Publishers: Wilmington Daily Review, Greensboro Patriot, Greensboro North State, Greensboro Daily Workman, Norfolk Virginian, Goldsboro Messenger, Washington (N. C.) Gazette, Winston Sentinel, Lenoir Topic, Home and Democrat, New Era, Tobacco Plant, Danbury Reporter-Post, Franklin Times, Orange County Observer, Person County Courier, The Home, Christian Union, Central Protestant, The Church Messenger, North Carolina Presbyterian, Raleigh Christian Advocate, Methodist Protestant, Biblical Recorder, The Watchman, The Peacemaker, American Missionary, Homiletic Review, North Carolina Teacher, and North Carolina Medical Journal.

CATALOGUE OF STUDENTS.

1886-'87.

POST-GRADUATE STUDENTS.

Fraternity Society

BATTLE, HERBERT BEMERTON..ΦΚΣ..Chem. and Geol..ΔΣ..Raleigh.
B. S., (Univ. of N. C., '81).

BATTLE, LEWIS JUNIUS..ΦΚΣ..Geology..ΔΣ..Raleigh.
Ph. B., Univ. of N. C., '86).

BYNUM, OLIVER CLEGG..ΣΑΕ..Law..ΔΣ..Bynum's.
A. B., (Univ. of N. C , '86).

COX, PIERRE BAYARD..ΚΑ..Law..Φ..Raleigh.
A. B., (Univ. of N. C., '86).

JONES, PAUL..ΚΑ..Law..Φ..Tarboro.
A. B., (Trinity College, '85).

MANN, JULIAN SMITH..ΚΑ..Law..Φ..Middleton.
A. B., (Univ. of N. C., '85).

MCALISTER, ALEXANDER WORTH..ΦΚΣ..Law..ΔΣ..Asheboro.
A. B., (Univ. of N. C., '82).

MILLER, JAMES DANIEL..Pedagogy..Φ..Raleigh.
Ph. B., (Univ. of N. C., '84).

RANSOM, THOMAS ROBERT..ΦΚΣ..Law..Φ..Weldon.
A. B., (Georgetown College, D. C., '85).

SCULL, ST. LEON..Law..Φ..Harrellsville.
B. S., (Univ. of N. C., '85).

TURRENTINE, SAMUEL BRYANT..Eng., Mor. Sc., His..ΔΣ..Hillsboro.
A. B , (Univ. of N. C., '84).

UZZELL, ROBERT LEE..Eng., French and German..Φ..Seven Springs.
B. S. (Univ. of N. C., '86).

WARD, ALFRED DECATUR..Law..Φ..Joford.
Ph. B., (Univ. of N. C., '85).

WEEKS, STEPHEN BEAUREGARD..Eng., Ang.-Sax., Lat., Ger..Φ..Eliz. City.
A. B., (Univ. of N. C., '86).

WOOD, JULIAN..ΑΤΩ..Law..Φ..Edenton.
Ph. B., (Univ. of N. C., '84).

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FOURTH YEAR STUDENTS—(SENIORS).

BAKER, JOSEPH HENRY, JR..ΦΚΣ..Cl.,..Φ..Tarboro.
BOURNE, LEWIS MILTON..ΦΚΣ..Cl.,..Φ..Tarboro.
BURWELL, ROBERT TURNBULL..ΚΑ..Ph.,..Φ..Raleigh.

× Resigned 1887

Fraternity Society

DOCKERY, CLAUDIUS ΣΑΕ Ph., ΔΨ Mangum.
GRISSOM, ROBERT GILLIAM ΚΑ Sc., Φ Raleigh.
HACKETT, RICHARD NATHANIEL Ph., ΔΨ Wilkesboro.
JOHNSON, JACOB COART Ph., Φ Johnson's Mills.
LONG, VERNON W Ph., Φ Chapel Hill.
MCDONALD, WILLIAM H ΦΔΘ Cl., ΔΨ Raleigh.
MCGEHEE, LUCIUS POLK ΚΑ Cl., Φ Raleigh.
MCGUIRE, JAMES, Jr Ph., ΔΨ Mocksville.
MCIVER, JOHN FENELON ΦΘΑ Cl., ΔΨ Winder.
MCNEILL, WM. HAMILTON Cl., ΔΨ Winder.
MORRIS JOSEPH ALGERNON Cl., Φ Wilton.
PARKER, HAYWOOD ΦΚΣ Cl., Φ Enfield.
SHAFFNER, HENRY FRIES ΣΑΕ Ph., ΔΨ Salem.
SIMMONS, ALBERT MARCHANT ΔΔΘ Cl., Φ Fairfield.
SMITH, CLAUDIUS FERDINAND ΔΚΕ Cl., Φ Coxville.
STARBUCK, HENRY REUBEN ΣΑΕ Cl., ΔΨ Winston.
TUCKER, WILLIAM R ΑΤΩ Ph., Φ Raleigh.
WILKINSON, WM. STRONACH ΖΨ Cl., Φ Tarboro.
WILSON, DELONZA TATE ΦΘΑ Cl., ΔΨ Hobton.

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THIRD YEAR STUDENTS—(JUNIORS).

ARMFIELD, EUGENE MOREHEAD Cl., ΔΨ Jamestown.
BATCHELOR, OLIVER DOUGLAS ΦΔΘ Cl., Φ Nashville.
BATTLE, WILLIAM JAMES ΖΨ Cl., ΔΨ Chapel Hill.
BRASWELL, ARCHIE, Jr Sc., Φ Whitaker's.
DALE, WM. JACKSON BEAUREGARD Sc., Φ Snow Hill.
DAVIS, HAYNE ΖΨ Cl., ΔΨ Statesville.
EDWARDS, LUTHER BELL Cl., Φ Henderson.
ESKRIDGE, THOMAS JOSEPH Sc., ΔΨ Shelby.
EZZELL, ROBERT FREDERIC Ph., ΔΨ Poortith.
FOUST, CHARLES GEORGE ΦΘΑ Ph., ΔΨ Columbia Factory.
HARPER, FRANCIS MARION ΔΚΕ Ph., Φ Kinston.
HEADEN, WILLIAM EDWARDS ΦΔΘ Cl., ΔΨ Pittsboro.
HESTER, ST. CLAIR ΔΚΕ Cl., Φ Kittrell.
HORD, GEORGE J. V. B ΦΘΑ Sc., ΔΨ Shelby.
JOHN, MAXCY LUTHER ΣΑΕ Ph., ΔΨ John Station.
LEWIS, HENRY WATSON Cl., Φ Lewiston.
LITTLE, WILLIAM MYERS ΣΑΕ Cl., ΔΨ Little's Mills.
MASSEY, CHARLES WESLEY Sc., Φ Durham.
PALMER, MALVERN HILL ΔΚΕ Ph., Φ Greenback.
SHAW, ALEXANDER CLIFTON ΦΔΘ Ph., ΔΨ Rockingham.
SMITH, ROBERT LEE Ph., ΔΨ Norwood.
THORP, BENONI Sc., Φ Berea.

× Resigned 1884.

Fraternity Society

VALENTINE, THOMAS WOODD.....Sc., Δ ς .....Bowman's Bluff.
WITHERS, EUGENE PERCIVAL ΦΘΑ Ph., Δ ς .....Danville, Va.
WOODLEY, DANIEL EDGAR.....Sc., Φ .....Columbia.

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SECOND YEAR STUDENTS—(SOPHOMORES).

ANDERSON, JACOB MARCUS.....Ph., Δ ς .....Pleasant Grove.
BORDEN, EDWIN BROWNRIGG ΑΤΩ Ph., Φ .....Goldsboro.
BORDEN, WALTER EUGENE ΑΤΩ Ph., Φ .....Goldsboro.
BRYANT, VICTOR SILAS .....Ph., Δ ς .....Pineville.
CATES, CALEB GILMER .....Ph., Δ ς .....Rock Spring.
CLEMENT, HERBERT ΣΑΕ .....Cl., Δ ς .....Mocksville.
CROWELL, JAMES LEE .....Sc., Δ ς .....Bilesville.
CURRIE, DANIEL JOHNSON.....Cl., Δ ς .....Stewart's Station.
CURTIS, WALTER MAKEPEACE ΣΑΕ Ph., Δ ς .....Franklinsville.
DAVIS, JAMES E. B.....Ph., Φ .....Pikeville.
DEANS, WILEY BEAUREGARD .....Ph., Φ .....Taylor.
EDWARDS, GEORGE WALTER.....Sc., Δ ς .....Elk Creek.
ΦΘΑ EGERTON, MONTRAVILLE WALKER..Cl., Δ ς .....Hillgirt.
EURE, MILLS ROBERTS. ΔΚΕ .....Cl., Φ .....Norfolk, Va.
FELTON, CLAUDIUS BELL.....Cl., Φ .....Beaufort.
FOUST, JULIUS ISAAC.....Ph., Δ ς .....Graham.
FUQUAY, ALDRICH PARTIN.....Ph., Φ .....Varina.
GRAHAM, JOHN WOOTEN ΦΘΑ .....Cl., Δ ς .....Keyser.
GULICK, WILLIAM MCKEE ΖΨ .....Cl., Φ .....Oxford.
HARRIS, HUNTER LEE.....Sc., Φ .....Henderson.
HARRIS, JAMES ROBERT.....Cl., Φ .....Rolesville.
HENDRICKS, JOHN ADDISON.....Sc., Δ ς .....Jerusalem.
HERRING, JOSHUA JAMES, Jr.....Sc. & Nor., Φ ....LaGrange.
HILL, JOHN SPRUNT. ΣΑΕ .....Ph., Δ ς .....Faison.
HOLLAND, GEORGE COURTS ΦΘΑ .....Sc., Δ ς .....Dallas.
HOWELL, LOGAN DOUGLASS ΖΨ .....Cl., Φ .....Goldsboro.
JOHNSTON, HENRY . Φ ΚΣ .....Cl., Φ .....Tarboro.
LITTLE, LACY LEGRAND ΑΤΩ .....Cl., Δ ς ..... Little's Mills.
LONG, JOHN EDGAR .....Ph., Δ ς .....Graham.
LOWE, CICERO FRANKLIN, Jr.....Cl., Δ ς .....Lexington.
LYNCH, LEANDER WILLIAM .....Sc., Δ ς .....Cuba.
MAJETTE, MARK .....Cl., Φ .....Como.
MEBANE, JAMES EDWIN.....Cl., Δ ς .....Madison.
MURPHY, HANSON FINLA .....Ph., Φ .....South Washingt'n.
PARKER, FRANCIS MARION, Jr. ΦΚΣ Ph., Φ .....Enfield.
PARKER, JUNIUS REVERDY ΚΑ .....Ph., Δ ς .....Graham.
PARTRICK, WILLIAM SULLIVAN .....Cl., Δ ς ..... Clinton.
PERRY, DAVID BARLOW .....Ph., Φ ..... Tarboro.

Fraternity Society

ROBERSON, WILLIAM STONE.....Cl., ... Φ ..... Chapel Hill.
STEELE, GEORGE SPENCER.....Ph., ... Δ ..... Rockingham.
STRONACH, ALEXANDER..ΦΔΘ.....Ph., ... Φ ..... Raleigh.
STROWD, THOMAS WILSON.....Ph., ... Δ ..... Chapel Hill.
TALTON, WILLIAM RANSOM .....Nor., ... Φ ..... Selma.
TOMS, CLINTON WHITE..... ΣΨ .....Ph., ... Φ ..... Hertford.
TRIPP, JOHN BRYANT.....Sc. & Nor., Φ ..... Greenville.
TYSON, BENJAMIN FRANKLIN.....Cl., ... Φ ..... Greenville.
WEBB, CHARLES AURELIUS..ΦΔΑ...Cl., ... Δ ..... Warren Plains
WILLS, GEORGE STOCKTON.....Ph., ... Φ ..... Greensboro.
WILSON, JAMES WILLIAM, Jr..KA...Cl., ... Δ ..... Morganton.
WOOD, HENRY GILLIAM.....ΔΚΕ...Ph., ... Φ ..... Edenton.
WORTHINGTON, ROBERT .....Nor., ... Φ ..... Greenville
WOODSON, ROBERT SCOTT.....Sc., ... Φ ..... Plymouth.

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FIRST YEAR STUDENTS—(FRESHMEN).

ADERHOLDT, JOHN D. W .....Sc., ... Δ ..... Dallas.
ALLEN, WILLIAM HENRY.....Nor., ... Φ ..... Greenville.
BATTLE, GASTON ...ΦΚΣ.....Ph., ... Φ ..... Rocky Mount.
BATTLE, WILLIAM SMITH, Jr..ΦΚΣ..Ph., ... Φ ..... Warrenton.
BELLAMY, JOHN DILLARD..ΣΑΕ...Cl., ... Δ ..... Wilmington.
BENNETT, JOHN TYLER .....Ph., ... Δ ..... Norwood.
BLACKWOOD, CHARLES ALEXANDER..Sc., ... Φ ..... Chapel Hill.
BLOUNT, SAMUEL MASTERS..ΔΚΕ...Cl., ... Φ ..... Washington.
BRADHAM, CALEB DAVIS ..... Ph., ... Φ ..... Chinquapin.
BRADLEY, JOHN FRANCIS.....Ph., ... Δ ..... Gastonia.
BRAGAW, STEPHEN CAMBRELENG....Ph., ... Φ ..... Washington.
BRYAN, HENRY RAVENSCROFT ΑΤΩ Sc., ... Φ ..... Newbern.
CARTER, ROBERT EDWARD..KA....Cl., ... Φ ..... Fairfield.
CLARK, AMBROSE.....Cl., ... Δ ..... Apple Grove.
COLLINS, GEORGE W. KENT..ΣΨ...Sc., ... Φ ..... Hillsboro.
COX, THOMAS ALEXANDER .....Ph., ... Φ ..... Hertford.
DARNALL, HARRY JOHNSTON.....Ph., ... Φ ..... Durham.
FLEMING, WILLIAM JOHN .....Cl., ... Δ ..... Mill Hill.
GREEN, JAMES RANDOLPH.....Sc., ... Φ ..... Durham.
HARGROVE, CHARLES BUDWOOD....Cl., ... Φ ..... Tarboro.
HOLMES, JOHN SIMCOX .....Agr., ... Δ ..... Bowman's Bluff.
HOWELL, GEORGE PIERCE..ΣΨ....Ph., ... Φ ..... Goldsboro.
HUTCHINGS, TYRRELL WADE.....Nor., ... Φ ..... Chapel Hill.
JIMESON, JAMES ELLIOTT.....Nor., ... Δ ..... Three Forks.
KELL, SAMUEL HICKMAN..... Cl., ... Δ ..... Pineville.
LATHAM, JOSEPH NORMAN .....Ph., ... Φ ..... Plymouth.
LEDBETTER, HENRY DAVID .....Cl., ... Δ ..... Rockingham.

Fraternity Society

LEE, THOMAS MOSSETTE ..... Cl., ΔΣ ..... Clinton.
LONDON, JOHN HAUGHTON ..... Sc., ΔΣ ..... Pittsboro.
LOVE, EDGAR ..... ΦΘΑ ..... Ph., ΔΣ ..... Gastonia.
LUNSFORD, WILLIAM EWART ..... Sc., Φ ..... Durham.
MARTIN, JOHN CHASTINE ..... Cl., ΔΣ ..... White Oak.
MCIVER, ALEXANDER, Jr ..... ΦΘΑ ..... Cl., ΔΣ ..... Oaks.
MCIVER, HARMON MARTIN ..... Sc., ΔΣ ..... Oaks.
MILLER, HUGH LEE ..... ΑΤΩ ..... Ph., Φ ..... Goldsboro.
MOORE, THOMAS LAKE ..... ΦΘΑ ..... Sc., ΔΣ ..... Best.
PATE, PRESTON BOOOKS ..... Nor., ΔΣ ..... Laurel Hill.
PHILIPS, JAMES JONES ..... ΖΨ ..... Cl., Φ ..... Tarboro.
RANSOM, PATRICK EXUM ..... ΣΑΕ ..... Ph., Φ ..... Weldon.
REDFEARN, WILSON ..... Ph., ΔΣ ..... Wadesboro.
RICHMOND, ROMAN EUGENE ..... ΔΤΔ ..... Sc, ΔΣ ..... Memphis, Tenn.
ROSENTHAL, ALBERT ..... ΖΨ ..... Ph., Φ ..... Goldsboro.
SAPP, ROBERT LEE ..... Sc., ΔΣ ..... Jamestown.
SAUNDERS, RICHARD BENBURY ..... Cl., Φ ..... Oxford.
SHAFFNER, WILLIAM FRANCIS ..... ΣΑΕ ..... Ph., ΔΣ ..... Salem.
SHAW, ANGUS BARRY ..... ΦΔΘ ..... Ph., ΔΣ ..... Rockingham.
SHAW, HOWARD BURTON ..... ΖΨ ..... Cl., Φ ..... Tarboro.
SIMMONS, WILLIAM SILAS ..... Ph., ΔΣ ..... Anderson's Store.
SNIPES, WILLIAM SEATON ..... Ph., ΔΣ ..... Lambsville.
TAYLOR, WILLIAM HAMNER ..... Sc., ΔΣ ..... Dysortville.
TILLEY, GEORGE VANCE ..... Ph., ΔΣ ..... Chapel Hill.
WASHBURN, DANIEL MOSES ..... Nor., ΔΣ ..... Mica.
WHITSITT, WILLIE T ..... Nor., ΔΣ ..... Gibsonville.
WILLIAMS, JOHN ROBERT ..... ΦΘΑ ..... Cl., ΔΣ ..... Apex.
WILLIAMS, WILLIE ..... ΑΤΩ ..... Ph., Φ ..... Raleigh.
× WILSON, HENRY ASBURY ..... Ph., ΔΣ ..... Yadkinville.
WINBORNE, SAMUEL PRETLOW ..... ΦΚΣ ..... Ph., Φ ..... Murfreesboro.

ΔΣ -- 31. Φ -- 26.

OPTIONAL STUDENTS.

ALEXANDER, JOHN WILSON ..... ΣΑΕ ..... 3d year ..... ΔΣ ..... Charlotte.
BATCHELOR, KEMP BATTLE ..... 1st year ..... Φ ..... Raleigh.
COPELAND, ROBERT ERNEST ..... 2d year ..... Φ ..... Wilson.
COSTNER, ROBERT EDWIN ..... ΚΑ ..... 3d year ..... ΔΣ ..... Lincolnton.
FARMER, JAMES ARTHUR ..... 1st year ..... Φ ..... Wilson.
o FREEZE, JACOB ALEXANDER ..... 1st year ..... ΔΣ ..... Enochville.
GILBERT, WILLIE LEON ..... 1st year ..... Mooresboro.
GRAVES, STEPHEN PORTER ..... ΣΑΕ ..... 2d year ..... ΔΣ ..... Mt. Airy.
GRIMES, WALTER HANRAHAN ..... ΦΔΘ ..... 1st year ..... Φ ..... Raleigh.
HECK, GEORGE CALLENDINE ..... 1st year ..... Raleigh.
HOGAN, DAVID ROSSVILL ..... 1st year ..... ΔΣ ..... Chapel Hill.

× Died of pneumonia 1887.

o Killed 1886

Fraternity Society

Marshall, Aquila Jackson	1st year	ΔΦ	Wilmington.
Michaux, Charles Edward	1st year	ΔΦ	Woodburn.
Moore, Eugene Dick	1st year	ΔΦ	Lenoir.
Neal, Joseph Walter	1st year	ΔΦ	Meadows.
Ricks, William Benjamin	2d year	ΦΔ	Nashville.
Robinson, Charles Phillips	1st year	ΔΦ	Wadesboro.
Scott, Henry William, ΚΑ	1st year	ΔΦ	Graham.
Smith, Kirby Hobton	1st year	ΦΔ	Goldsboro.
Thomson, William Sillers, ΦΘΑ	1st year	ΔΦ	Clinton.
Wade, Thomas	4th year	ΦΔ	Rich Square.
Wilkerson, John Edgar	1st year	ΦΔ	Chapel Hill.
Woodard, Paul Lee	1st year	ΦΔ	Black Creek.

ΔΦ

STUDENTS IN LAW.

Alexander, Edmund, ΒΘΠ		ΦΔ	Plymouth.
Bynum, Oliver Clegg, ΣΑΕ		ΔΦ	Bynum's.
Chapin, Lillias Burdette			Aurora.
Cooper, Robert Lee		ΔΦ	Murphy.
Cox, Pierre Beauregard, ΚΑ		ΦΔ	Raleigh.
Drew, Frank, ΑΤΩ			Jacksonville, Fla.
Duls, Charles Henry			Charlotte.
Graves, Stephen Porter, ΣΑΕ		ΔΦ	Mt. Airy.
Heck, George Callendine			Raleigh.
Hill, Thomas Norfleet, ΚΑ			Halifax.
Johnson, Claud Raymond		ΦΔ	Lewiston.
Jones, Paul, ΚΑ		ΦΔ	Tarboro.
Majette, Mark		ΦΔ	Como. #
Mann, Julian Smith, ΚΑ		ΦΔ	Middleton.
McAlister, Alexander Worth, ΦΚΣ			Asheboro.
McNeill, William Hamilton		ΔΦ	Winder.
Ransom, Thomas Robert, ΦΚΣ		ΦΔ	Weldon.
Scull, St. Leon		ΦΔ	Harrellsville.
Shaw, Henry Elias			Willard.
Thomson, William Sillers, ΦΘΑ		ΔΦ	Clinton.
Van Amringe, Stacey, Jr.			Wilmington.
Ward, Alfred Decatur		ΦΔ	Joford.
Whittington, Hiram Allen		ΔΦ	Burnsville.
Wood, Julian, ΑΤΩ		ΦΔ	Edenton.

ΔΦ

" Expelled - 1887.

Resigned 1884.

SUMMARY.

Post-Graduate Students	15
Fourth Year Students	22
Third Year Students	25
Second Year Students	52
First Year Students	57
Optional Students	23
Law Students	24
	218
Names counted twice	14
Total	204

HONORARY DEGREES CONFERRED, JUNE, '86.

DOCTORS OF LAWS (LL. D.)

A. W. Chapman	South Carolina.
Marcus V. Lanier	North Carolina.
Duncan K. McRae	North Carolina.
H. W. Ravenell	South Carolina.

DOCTORS OF DIVINITY (D. D.)

Rev. Jno. R. Brooks	North Carolina.
Rev. Jno. L. Carroll	North Carolina.
Rev. D. A. Long	Ohio.
Rev. Luther McKinnon	North Carolina.

DEGREES CONFERRED IN COURSE, JUNE, '86.

BACHELORS OF ARTS (A. B.)

	Fraternity	Society	
Bynum, Oliver Clegg	ΣΑΕ	Δ. ε.	Bynum's.
Carroll, William Houston	ΦΔΘ	Φ.	Magnolia.
Cline, Edward Bost	ΦΘΑ	Δ. ε.	Hickory.
Cox, Pierre Beauregard	ΚΑ	Φ	Raleigh.
Dixon, Frank	ΚΑ	Δ. ε.	Shelby.
Jackson, Samuel Spencer	ΦΚΣ	Δ. ε.	Pittsboro.
Jenkins, Joseph John, Jr		Δ. ε.	Rigsbee's Store.
Manning, Pierre Beauregard		Φ	Sunbury

Fraternity Society

MOREHEAD, JOHN MOTLEY ΚΑ ΔΦ Charlotte.
PATTERSON, GILBERT BROWN ΣΑΕ ΔΦ Shoe Heel.
RICE, WILLIAM HENRY ΦΚΣ ΦΧ Raleigh.
SELF, WILLIAM AUGUSTUS ΦΘΑ ΔΦ Newton.
SHIELDS, MALCOM MCGILVARY ΦΘΑ ΔΦ Carthage.
THOMAS, JAMES ΦΧ Newbern.
WEEKS, STEPHEN BEAUREGARD ΦΧ Elizabeth City.
WILSON, NATHAN HUNT DANIEL, Jr ΖΨ ΔΦ Greensboro.

BACHELORS OF PHILOSOPHY (PH. B.)

BATTLE, LEWIS JUNIUS ΦΚΣ ΔΦ Raleigh.
DUNSTON, WALTER SEATON ΦΧ Creswell.
GRANDY, CHARLES TAYLOR ΖΨ ΦΧ Shiloh.
GRANDY, LUTHER BELL ΖΨ ΦΧ Oxford.
JACKSON, HERBERT WORTH ΑΤΩ ΔΦ Asheboro.
LITTLE, FRANK MILTON ΔΦ Wadesboro.
POLLOCK, WILLIAM DUNWOOD (June, '85) ΦΧ Kinston.
SCHENCK, JOHN FRANK ΚΑ ΔΦ Cleveland Mills.

BACHELORS OF SCIENCE (B. S.)

PATRICK, GEORGE LANE ΦΧ Kinston.
UZZELL, KIRBY SMITH ΦΧ Beston.
UZZELL, ROBERT LEE ΦΧ Goldsboro.

BACHELOR OF LAW (B. S.)

WEILL, SOLOMON COHEN ΖΨ ΔΦ Wilmington.

MASTER OF ARTS (A. M.)

MANGUM, ERNEST PRESTON ΖΨ ΔΦ Chapel Hill.

SPECIAL CERTIFICATES.

GREEK.

RANSOM, HENRY HUNTT ΦΧ Newbern.
SHIELDS, MALCOM MCGILVARY ΦΘΑ ΔΦ Carthage.

MATHEMATICS.

BURWELL, ROBERT TURNBULL ΚΑ ΦΧ Raleigh.
WILKINSON, WILLIAM STRONACH ΖΨ ΦΧ Tarboro.

× Resigned 1884.

Fraternity Society

NATURAL PHILOSOPHY.

CLINE, EDWARD BOST ΦΔΘ ..... Δ ς ..... Hickory.
LITTLE, FRANK MILTON ..... Δ ς ..... Wadesboro.

HONORS.

VALEDICTORY ORATION.

WILSON, NATHAN HUNT DANIEL, Jr ΣΧ ..... Δ ς Greensboro.

CLASSICAL ORATION.

WEEKS, STEPHEN BEAUREGARD ..... Φ Elizabeth City.

REPRESENTATIVE MEDAL.

DOCKERY, CLAUDIUS ΣΑΕ ..... Δ ς Mangum.

MANGUM MEDAL.

SCHENCK, JOHN FRANK ΚΑ ..... Δ ς Cleveland Mills.